3/8/88 U8960-2A

ueb r

Utah Economic and Business Review

Volume 47
Number 12
December 1987

B E B R

graduate school
of business
bureau of economic and
business research
university of utah

1987 POPULATION ESTIMATES FOR UTAH

Brad T. Barber and Jeanine M. Taylor
State Office of Planning and Budget

The Population Estimates Committee has estimated that the population of Utah reached 1,678,000 as of July 1, 1987, which represents an increase of 13,000, or 0.8 percent over the 1986 revised estimate of 1,665,000. The U.S. population increase was 0.9 percent during the same period. The last time Utah's population grew by 13,000 or fewer was in 1968. The yearly percent increase in population has been greater than 0.8 percent in every year since 1964, when the population in Utah grew by only 0.4 percent.

The population estimate as of July 1, 1980, was 1,474,000 inhabitants for the state. Over the past seven years the population has grown by approximately 204,000 persons, which translates into a 1.9 percent average annual growth rate for the 1980's compared to an average annual growth rate of 3.3 percent for the 1970's. Comparable national average annual growth rates are 1.1 percent in the 1970's and 1.0 percent in the 1980's. This dramatic slowdown in Utah's population growth in recent years has been caused by a combination of out-migration (as a result of weakened economic conditions) as well as a decline in natural increase (births minus deaths).

Utah had an extended period of net in-migration each year from 1969 to 1983; however, for the fourth consecutive year net out-migration has occurred. Once again natural increase has accounted for all of the state's population growth. Net out-migration for the period July 1, 1986 to July 1, 1987 is estimated at 13,500. This is significantly higher than the approximate 8,500 estimated for the previous 12 months, and the highest level of out-migration since 1964 (when an estimated 14,000 left the state). The 1987 rate of out-migration is 0.8 percent, which means that 0.8 percent of the 1986 population left the state during the year.

The rate of out-migration was once again highest in Utah's rural counties, many of which were impacted by the further decline in energy development. These counties include Beaver, Carbon, Duchesne, Emery, Grand, Millard, Rich, Uintah and Wayne. In fact, these counties had net out-migration which exceeded natural increase, resulting in a decline in total population.

Table 1
Utah Population Density by County
1986 and 1987

County	Land Area		July 1, 1986			July 1, 1987		
				Population			Population	
	Sq. Mi.	Sq. Km.	Population Estimate	per Sq. Mi.	per Sq. Km.	Population Estimate	per Sq. Mi.	per Sq. Km.
Beaver	2,586	6,698	4,950	1.9	0.7	4,900	1.9	0.7
Box Elder	5,614	14,539	37,300	6.6	2.6	37,800	6.7	2.6
Cache	1,171	3,033	67,800	57.9	22.4	69,200	59.1	22.8
Carbon	1,479	3,831	23,000	15.6	6.0	22,400	15.1	5.8
Daggett	699	1,810	700	1.0	0.4	700	1.0	0.4
Davis	299	775	175,000	585.3	225.8	179,000	598.7	231.0
Duchesne	3,234	8,375	14,300	4.4	1.7	13,700	4.2	1.6
Emery	4,449	11,523	11,800	2.7	1.0	11,600	2.6	1.0
Garfield	5,148	13,333	4,050	0.8	0.3	4,050	0.8	0.3
Grand	3,689	9,554	6,850	1.9	0.7	6,700	1.8	0.7
Iron	3,302	8,551	19,500	5.9	2.3	19,500	5.9	2.3
Juab	3,396	8,796	5,800	1.7	0.7	5,800	1.7	0.7
Kane	3,898	10,095	4,800	1.2	0.5	4,850	1.2	0.5
Millard	6,818	17,659	13,600	2.0	0.8	13,200	1.9	0.7
Morgan	603	1,562	5,500	9.1	3.5	5,650	9.4	3.6
Piute	759	1,965	1,550	2.0	0.8	1,550	2.0	0.8
Rich	1,034	2,679	2,050	2.0	0.8	1,950	1.9	0.7
Salt Lake	756	1,959	697,000	922.0	355.8	700,000	925.9	357.3
San Juan	7,725	20,008	12,700	1.6	0.6	12,900	1.7	0.6
Sanpete	1,586	4,109	16,500	10.4	4.0	16,600	10.5	4.0
Sevier	1,910	4,946	15,800	8.3	3.2	15,800	8.3	3.2
Summit	1,865	4,831	12,700	6.8	2.6	13,200	7.1	2.7
Tooele	6,919	17,921	28,100	4.1	1.6	28,100	4.1	1.6
Uintah	4,479	11,600	23,000	5.1	2.0	21,900	4.9	1.9
Utah	2,018	5,226	253,000	125.4	48.4	257,000	127.4	49.2
Wasatch	1,191	3,084	9,450	7.9	3.1	9,700	8.1	3.1
Washington	2,422	6,272	39,100	16.1	6.2	41,200	17.0	6.6
Wayne	2,461	6,373	2,100	0.9	0.3	2,050	0.8	0.3
Weber	566	1,465	157,000	277.4	107.2	157,000	277.4	107.2
State Total	82,076	212,572	1,665,000	20.3	7.8	1,678,000	20.4	7.9

Source: Land area: Bureau of the Census, Census of Population, Number of Inhabitants, Utah 1980. PC80-1-A46 (Washington, D.C., Government Printing Service).

Most of Utah's population increase occurred in three of the Wasatch Front Counties: Davis, Salt Lake, and Utah. Salt Lake County increased by 3,000, while Utah and Davis each showed an increase of 4,000. These three counties collectively accounted for over 80 percent of the total growth in the state. Although Washington County was once again the fastest growing county in the state with a growth rate of 5.4 percent, this was only half of the growth rate shown in 1986. Summit County was the second fastest growing county in the state, with 3.9 percent. Cache, Davis, Morgan and Wasatch Counties also experienced growth rates greater than 2 percent for the year.

The Population Estimates Committee has revised its 1986 state estimate in order to reach a consensus with the U.S. Bureau of the Census on the state level. This assures consistency between state total population estimates published by the Bureau of the Census and the Population Estimates Committee. However, the Committee's county estimates may still differ from those of the Census Bureau.

Figure 1 gives the absolute and percentage changes in population for each of the counties from 1986 to 1987. Table 1 shows the population density for each county using the 1980 Census land area. Table 2 presents the revised population estimates for the Multi-County Planning Districts for 1980-1987; 1980-87 county estimates can be found in Table 3. Table 4 shows births, deaths and natural increase for the calendar years 1960-1986. Table 5 presents natural increase and total net migration by county, by fiscal year, for the revised 1985-1986 period and for 1986-1987. Table 6 presents the derivation of the Committee's preliminary July 1, 1987 estimates based on the July 1, 1986 revised county and state population estimates. The revised intercensal population estimates for 1970-1980 are available in the Utah Economic and Business Review, September, 1981, Vol. 41, No. 9.

Organization and Procedure

Coordination and staffing of the Utah Population Estimates Committee is the responsibility of the Data Resources Section of the Utah State Office of Planning and Budget. The Data Resources Section contains the Utah State Census Data Center. The Committee's estimates represent the official estimate for the state and its counties. The Committee is made up of representatives from the Utah State Departments of Health, Employment Security, Social Services, Education, Planning and Budget and staff of local universities, businesses and research organizations and the Church of Jesus Christ of Latter-day Saints (LDS).

Table 2
Population Estimates for Utah
by Multi-County District

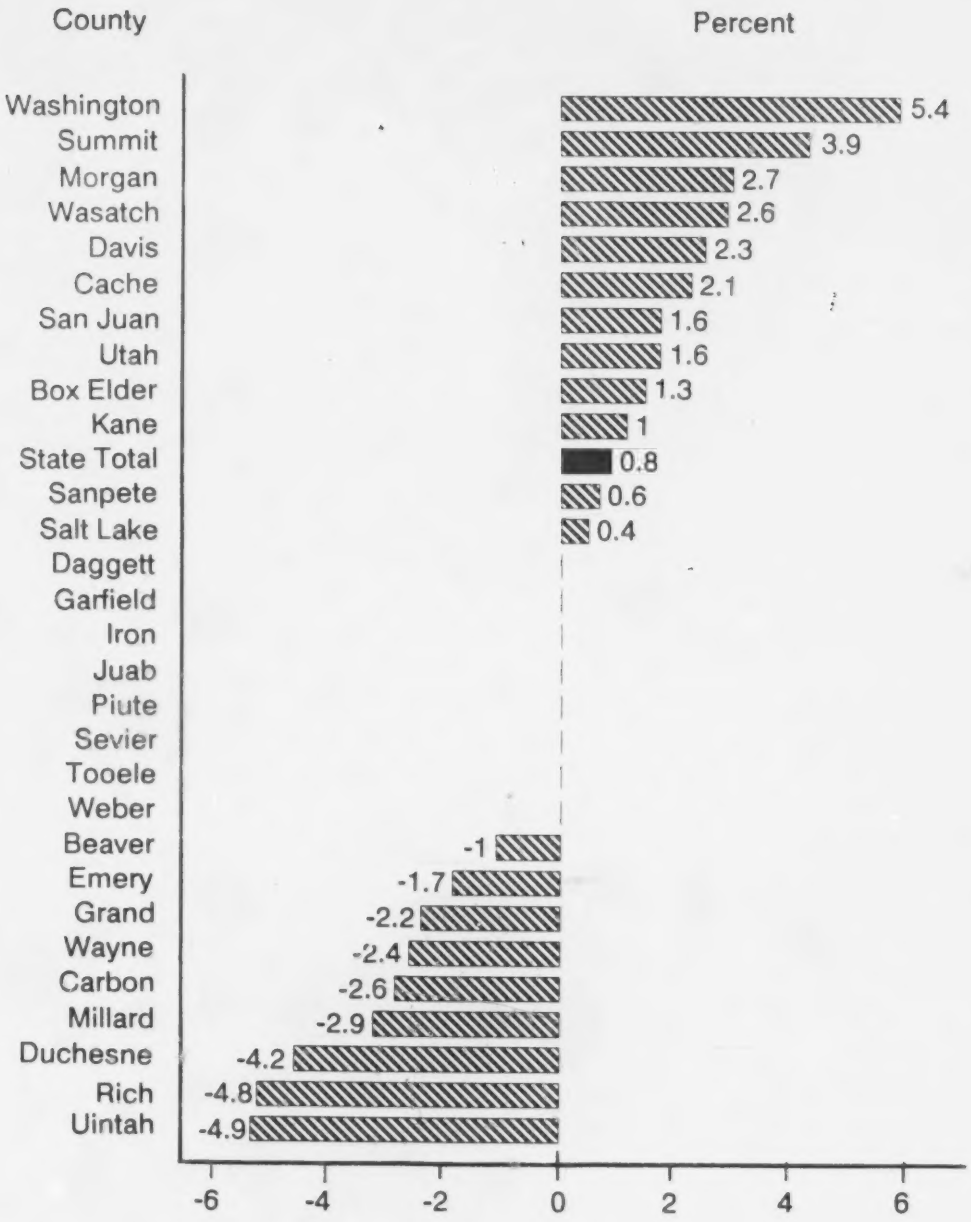
	July 1 1980	July 1 1981*	July 1 1982*	July 1 1983	July 1 1984*	July 1 1985	July 1 1986*	July 1 1987**
State Total	1,474,000	1,516,000	1,559,000	1,596,000	1,624,000	1,645,000	1,665,000	1,678,000
Bear River	93,350	96,050	99,100	102,100	103,550	105,400	107,150	108,950
Wasatch Front North	297,950	306,050	314,200	321,250	326,350	330,450	337,500	341,650
Wasatch Front South	651,200	666,800	682,100	694,300	707,200	717,300	725,100	728,100
Mountainland	239,050	247,800	255,050	262,850	268,400	271,600	275,150	279,900
Central	47,600	49,200	51,050	53,600	56,400	57,200	55,350	55,000
Southwest	56,050	57,950	60,250	62,900	65,500	68,900	72,400	74,500
Uintah Basin	34,150	35,850	38,850	40,450	40,050	39,400	38,000	36,300
Southeast	54,650	56,300	58,400	58,550	56,550	54,750	54,350	53,600

*Revised
**Preliminary

Figure 1

Percent Change in Population by County

July 1, 1986 to July 1, 1987



Source: Population Estimates Committee

Table 3
Revised Population Estimates
by County

County	July 1 1980	July 1 1981*	July 1 1982*	July 1 1983	July 1 1984*	July 1 1985	July 1 1986*	July 1 1987**
Beaver	4,400	4,600	4,650	5,000	5,150	5,050	4,950	4,900
Box Elder	33,500	34,000	34,700	35,300	35,800	36,600	37,300	37,800
Cache	57,700	59,800	62,000	64,500	65,600	66,700	67,800	69,200
Carbon	22,400	23,100	24,700	24,500	23,700	23,400	23,000	22,400
Daggett	750	850	850	750	750	700	700	700
Davis	148,000	153,000	158,000	162,000	166,000	170,000	175,000	179,000
Duchesne	12,700	13,100	13,700	14,400	14,800	14,700	14,300	13,700
Emery	11,600	12,100	13,000	13,100	12,400	11,800	11,800	11,600
Garfield	3,700	3,700	3,750	3,950	3,950	4,050	4,050	4,050
Grand	8,250	8,400	8,100	7,950	7,650	7,050	6,850	6,700
Iron	17,500	17,900	18,300	18,900	19,300	19,400	19,500	19,500
Juab	5,550	5,600	5,700	5,900	6,150	6,250	5,800	5,800
Kane	4,050	4,050	4,150	4,350	4,500	4,700	4,800	4,850
Millard	9,050	9,600	10,400	11,400	13,500	14,200	13,600	13,200
Morgan	4,950	5,050	5,200	5,250	5,350	5,450	5,500	5,650
Piute	1,350	1,400	1,350	1,450	1,500	1,550	1,550	1,550
Rich	2,150	2,250	2,400	2,300	2,150	2,100	2,050	1,950
Salt Lake	625,000	640,000	655,000	667,000	679,000	689,000	697,000	700,000
San Juan	12,400	12,700	12,600	13,000	12,800	12,500	12,700	12,900
Sanpete	14,800	15,400	16,100	16,900	17,000	16,900	16,500	16,600
Sevier	14,900	15,200	15,500	15,800	16,100	16,200	15,800	15,800
Summit	10,400	10,900	11,300	11,800	12,200	12,400	12,700	13,200
Tooele	26,200	26,800	27,100	27,300	28,200	28,300	28,100	28,100
Uintah	20,700	21,900	24,300	25,300	24,500	24,000	23,000	21,900
Utah	220,000	228,000	235,000	242,000	247,000	250,000	253,000	257,000
Wasatch	8,650	8,900	8,750	9,050	9,200	9,200	9,450	9,700
Washington	26,400	27,700	29,400	30,700	32,600	35,700	39,100	41,200
Wayne	1,950	2,000	2,000	2,150	2,150	2,100	2,100	2,050
Weber	145,000	148,000	151,000	154,000	155,000	155,000	157,000	157,000
State Total	1,474,000	1,516,000	1,559,000	1,596,000	1,624,000	1,645,000	1,665,000	1,678,000

*Revised
**Preliminary

The Committee s participation in the Federal-State Cooperative Program for Local Population Estimates provides an opportunity for exchange of data and other information between the Committee and the Bureau of the Census. The intent of this exchange is to improve the quality of estimates of population for the state and its counties by both parties. A major goal of the Committee is to strive for agreement in its estimates and the estimates produced by the Bureau of the Census.

At its December 1987 meeting, the Committee reviewed the state population estimates derived from vital statistics, school enrollment, and L.D.S. Church membership data. Employment growth was used as a supplemental data source after the estimates were derived to assure consistency between the magnitude and direction of growth for employment and population.

Methodology for Estimating Population

For the past several years the Utah Population Estimates Committee has utilized two population estimating methods--school enrollment and L.D.S. Church membership--in calculating its state and county estimates.

Two years ago the Committee was able to obtain federal tax return net exemption data for the prior four years. These tax data were used in addition to the previously mentioned methods to estimate the 1981 through 1984 population estimates on the county level, with adjustment in a few counties because of atypical growth experiences. However, due to several problems these data have not been used since. Continued evaluation and research is being done in the event the tax return information can be used in future years.

School Enrollment Method

The school enrollment method utilizes data from birth and death records in county of residence as a measure of the natural increase and fall school enrollment changes as an indicator of net migration.

Natural Increase - Natural increase for any year is defined as the number of births minus the number of deaths occurring to area residents in that year. The 1987 population estimates are based on the number of resident births and deaths that occurred from July 1, 1986 to June 30, 1987. The number of births and deaths occurring to Utah residents for the calendar years 1960-1986 is shown in Table 4. Births in fiscal year 1987 (July 1, 1986 through June 30, 1987) were 35,469, the lowest number of births in Utah since fiscal year 1976, when births were 33,773. The largest number of births occurred in fiscal year 1981 at 41,582, and the number has declined in each year since.

Table 4
Resident Utah Births,
Deaths, and Natural Increase
Calendar Years 1960-1986

1960	Births	Deaths	Natural Increase
1960	26,272	5,996	20,276
1961	25,590	6,081	19,509
1962	26,213	6,325	19,888
1963	24,952	6,544	18,408
1964	23,844	6,404	17,440
1965	22,261	6,672	15,589
1966	22,601	6,850	15,751
1967	22,948	6,516	16,432
1968	23,193	6,882	16,311
1969	24,232	6,791	17,441
1970	26,969	7,063	19,906
1971	27,552	7,245	20,307
1972	26,911	7,323	19,588
1973	27,978	7,573	20,405
1974	29,946	7,380	22,566
1975	31,667	7,519	24,148
1976	35,310	7,472	27,838
1977	37,956	7,612	30,344
1978	38,811	7,871	30,940
1979	41,078	7,871	33,207
1980	41,786	8,103	33,683
1981	41,286	8,263	33,023
1982	41,537	8,502	33,035
1983	39,441	8,484	30,957
1984	38,286	8,944	29,342
1985	37,441	9,044	28,397
1986	36,383	8,886	27,497

Source: Bureau of Health Statistics, Utah Department of Health (Salt Lake City).

The crude birth rate (births during the calendar year per 1,000 population on July 1st) has dropped from 28.3 in 1980 to 21.9 in 1986. The U.S. crude birth rate held virtually constant during this same period registering 15.9 in 1980 and 15.5 in 1986. The significant decline in the absolute number of births

and in the crude birth rate during the last five years has signaled a major demographic change in Utah.

Utah continues to have the highest total fertility rate in the nation. The total fertility rate for a given year shows how many births the average woman would have during her entire childbearing period (ages 15 to 44), if during this time she were to experience the same age-specific birth rates that occurred for childbearing-age women in that given year. This rate has been falling in Utah since 1980, from 3.2 births per woman to an estimated 2.6 births in 1986. The U.S. total fertility rate has held at an almost constant rate of 1.8 births per woman since the mid-1970's.

With only occasional reversals, the total number of deaths has increased each year since 1960; however, deaths per thousand population have decreased from 6.7 in 1960 to 5.5 in 1980. This rate has shown a small decline in the 1980's, with an estimated 5.3 deaths per thousand population in 1986.

Migration Estimates - Natural increase is an actual count of the births and deaths occurring annually. However, since states and counties do not collect migration statistics, migration is an estimate. The Utah Population Estimates Committee, like the Bureau of the Census, relies heavily upon school enrollment data as an indicator of migration.

To estimate net migration within the state and its counties for the school enrollment method, the Committee compares the survived enrollment (calculated by applying survival rates to the previous year's enrollment) in grades one through eight of the previous school year to grades two through nine of the present year. The difference between these two enrollment totals is taken to be net student migration for the area being estimated.

Total net migration for each county is derived by multiplying the county student migration estimate by the county population-to-student ratio. This ratio is defined as the total population estimate of the county for the previous year divided by the school enrollment of grades one through eight of the previous year. The school enrollment method population estimate is then obtained by adding natural increase and estimated net migration to the previous year's population estimate.

The school enrollment method, as described above, is limited in estimating migration among the retired, college students, single persons and other groups that are not represented in school enrollment estimates. The Committee supplements these estimates, therefore, with other migration indicators such as the change in L.D.S. membership and the count of employees on non-agricultural payrolls.

The net migration information shown in Table 5 is derived using the "residual method," that is, the residual of total population change minus natural increases is net migration. Net out-migration occurs when the total observed change in population is smaller than the natural increase alone. Net in-migration occurs when the observed population is greater than that measured by natural increase alone.

Table 5
Components of Change
1985 to 1986 and 1986 to 1987

	1985 to 1986		Preliminary 1986 to 1987	
	Natural Increase	Net Migration*	Natural Increase	Net Migration*
Beaver	32	(138)	41	(102)
Box Elder	612	138	532	(224)
Cache	1,359	(220)	1,242	222
Carbon	242	(541)	256	(868)
Daggett	11	5	8	(25)
Davis	3,085	2,082	3,159	957
Duchesne	305	(636)	248	(888)
Emery	185	(163)	159	(385)
Garfield	60	(37)	43	(32)
Grand	56	(245)	80	(258)
Iron	332	(151)	298	(396)
Juab	90	(511)	64	(86)
Kane	70	73	68	(45)
Millard	229	(880)	189	(561)
Morgan	53	7	78	60
Piute	(3)	(21)	5	(18)
Rich	35	(58)	21	(108)
Salt Lake	11,506	(2,723)	10,795	(8,519)
San Juan	163	34	184	(73)
Sanpete	225	(624)	140	(11)
Sevier	186	(503)	175	(161)
Summit	195	117	175	310
Tooele	354	(546)	366	(317)
Uintah	481	(1,510)	424	(1,544)
Utah	5,490	(2,504)	5,059	(1,582)
Wasatch	134	73	113	135
Washington	657	2,766	627	1,511
Wayne	25	(55)	27	(67)
Weber	2,186	(754)	2,080	(2,051)
State Total	28,355	(7,535)	26,656	(15,128)

*Based on unrounded population estimates

Table 6
Derivation of 1987 County Population Estimates

	Revised July 1, 1986 Population Estimates	1987 L.D.S. Membership Method	Fall 1987 School Enrollment Method	1987 Population Estimates Average	July 1, 1987 Preliminary Population Estimates	1986-87 Percentage Change
Beaver	4,950	4,930	4,837	4,883	4,900	-1.0
Box Elder	37,300	37,220	37,883	37,552	37,800	1.3
Cache	67,800	68,966	69,343	69,155	69,200	2.1
Carbon	23,000	22,503	22,295	22,399	22,400	-2.6
Daggett	700	729	639	684	700	0.0
Davis	175,000	180,851	178,098	179,474	179,000	2.3
Duchesne	14,300	13,889	13,494	13,691	13,700	-4.2
Emery	11,800	11,676	11,499	11,588	11,600	-1.7
Garfield	4,050	4,077	4,043	4,060	4,050	0.0
Grand	6,850	6,731	6,629	6,680	6,700	-2.2
Iron	19,500	19,440	19,379	19,409	19,500	0.0
Juab	5,800	5,962	5,627	5,795	5,800	0.0
Kane	4,800	4,757	4,927	4,842	4,850	1.0
Millard	13,600	13,503	12,851	13,177	13,200	-2.9
Morgan	5,500	5,570	5,698	5,634	5,650	2.7
Piute	1,550	1,515	1,540	1,527	1,550	0.0
Rich	2,050	2,023	1,893	1,958	1,950	-4.9
Salt Lake	697,000	702,502	696,996	699,749	700,000	0.4
San Juan	12,700	12,817	12,829	12,823	12,900	1.6
Sanpete	16,500	16,516	16,719	16,617	16,600	0.6
Sevier	15,800	15,670	15,967	15,818	15,800	0.0
Summit	12,700	12,916	13,504	13,210	13,200	3.9
Tooele	28,100	28,129	28,138	28,134	28,100	0.0
Uintah	23,000	22,260	21,454	21,857	21,900	-4.8
Utah	253,000	256,449	257,055	256,752	257,000	1.6
Wasatch	9,450	9,569	9,789	9,679	9,700	2.6
Washington	39,100	41,826	40,539	41,183	41,200	5.4
Wayne	2,100	2,062	2,016	2,039	2,050	-2.4
Weber	157,000	156,615	156,933	156,774	157,000	0.0
State Total	1,665,000	1,681,672	1,672,613	1,677,143	1,678,000	0.8

As mentioned, Utah has had much lower levels of migration in the last few years. From July 1, 1980 to June 30, 1987, births were 272,607 and deaths were 60,274 for a net natural increase of 212,233. With an overall increase in population of approximately 204,000 persons since 1980, Utah has had over 8,000 net out-migration in the last seven years. This figure is a dramatic turnaround to the 151,556 net in-migration that occurred in Utah during the 1970's.

L.D.S. Membership Method

The L.D.S. Church annually audits its records and enumerates the members residing in each county of the state. The Committee uses this information to make current population estimates. The L.D.S. membership method uses a total population to L.D.S. membership ratio which is obtained by dividing the previous year's population by the L.D.S. membership of that year. This ratio is applied to the current L.D.S. membership to obtain a county population estimate. This method is relatively accurate in areas with high proportions of L.D.S. membership and low migration rates.

Local Coordination

At the Committee's December 1987 meeting, the tentative 1987 county and state population estimates were reviewed and approved. The respective county estimates were then sent to each county commission and to the seven Associations of Government for review and comment. Several telephone and written communications were received. These discussions have resulted in undertaking several data evaluation efforts in some counties to improve future reliability.

The local coordination effort is an important component of the estimation process. Although there will always be small differences between the Committee's estimates and estimates developed by local governments, it does assure the Committee that no major problems exist. The Committee is dedicated to keeping local governments informed of changes in estimation data and procedures.

Population Estimates Committee

Brad T. Barber, Chairman
State Office of Planning
and Budget

Bruce Bailey
Utah Foundation

John E. Brockert
Utah Department of Health

Walter Busse
Church of Jesus Christ of
Latter-day Saints

Susan Davis
Mountain Fuel Supply

Frank Hachman
Bureau of Economic and
Business Research

Kenneth E. Jensen
Utah Department of
Employment Security

Yun Kim
Population Research Lab
Utah State University

Marvin I. Levy
Utah Department of Health

Gery Moore
Utah Department of Health

Larry Newton
Utah State Office of Education

Richard Oldroyd
Commission on Criminal
and Juvenile Justice

Jewell Rasmussen
Department of Economics
University of Utah

T. Ross Reeve
Utah Power and Light

Bruce Slater
Utah Department of Health

Jeanine M. Taylor
State Office of Planning
and Budget

Rodger Weaver
Public Service Commission

Tom Williams
Utah State Tax Commission

Utah Business Statistics

UTAH DATA	September 1986	September 1987	% Change From Year Ago	12 Month Average This Year	12 Month Average Last Year	12 Month Average % Change
Total Personal Income (seasonally adjusted) (mil. of dol.) (qtly.)	18,340	19,137	4.3%	18,731	18,166	3.1%
New Corporations (no.)	428	505	18.0%	456	467	-2.3%
New Car, Truck and Motorhome Sales (no.)	8,463	5,441	-35.7%	5,122	6,332	-19.1%
Agriculture						
Average Prices Recorded by Farmers (dol.)						
Beef Steers and Heifers (cwt) (thous.)	56.50	64.30	13.8%	61.93	55.21	12.2%
Lambs (cwt)	65.00	72.10	10.9%	71.93	64.45	11.6%
Milk Wholesale (cwt)	12.00	12.10	0.8%	12.07	11.68	3.3%
Alfalfa Hay, Baled (per ton)	62.00	72.00	16.1%	65.67	69.89	-6.0%
Cattle Slaughtered (live weight) (thous. of lbs.)	38,518	44,540	15.6%	40,773	36,015	13.2%
Construction						
Total Construction (thous. of dol.) [1]	141,897	124,506	-12.3%	122,939	130,813	-6.0%
Residential	59,408	56,305	-5.2%	56,552	57,851	-2.2%
Nonresidential	37,974	34,697	-8.6%	37,327	48,091	-22.4%
Public Works and Utilities	44,515	33,504	-24.7%	29,061	25,113	15.7%
Total Permit Construction (thous. of dol.) [2]	105,867.2	76,628.3	-27.6%	93,950.1	119,736.8	-21.5%
Residential	63,416.3	35,681.5	-43.7%	45,760.0	64,401.8	-28.9%
Nonresidential	29,059.0	27,718.9	-4.6%	34,651.3	41,073.6	-15.6%
Additions, Alterations and Repairs	13,391.9	13,227.9	-1.2%	13,538.8	14,281.9	-5.2%
New Dwelling Units (no.)	1,079	509	-52.8%	704	1,274	-44.7%
Employment						
Civilian Labor Force (thous.)	767.3r	757.4	-1.3%	760.8	752.5	1.1%
Total Employed Persons	725.2r	715.5	-1.3%	711.6	709.3	0.3%
Unemployed Persons	42.2r	41.9	-0.7%	49.1	42.8	14.7%
Percent Total Labor Force	5.5r	5.5	0.0%	6.5	5.7	14.0%
Employees on Nonagricultural Payrolls (thous. of jobs)	642.7r	650.0	1.1%	640.1	634.3	0.9%
Manufacturing	91.6r	94.4	3.1%	92.0	92.9	-1.1%
Mining	7.4r	8.0	8.1%	8.2	8.3	-0.7%
Contract Construction	35.0r	28.8	-17.7%	29.4	34.3	-14.4%
Transportaion, Communication and Utilities	37.4r	38.1	1.9%	37.6	37.1	1.3%
Wholesale Trade	36.4r	36.6	0.5%	36.3	35.9	1.2%
Retail Trade	118.9r	120.3	1.2%	119.1	116.0	2.7%
Finance, Insurance and Real Estate	33.3r	33.9	1.8%	33.7	32.5	3.6%
Services [3]	141.1r	148.6	5.3%	142.1	136.6	4.1%
Federal Government	40.8r	39.6	-2.9%	40.1	40.3	-0.6%
State Government [4]	36.4r	36.3	-0.3%	37.4	37.5	-0.5%
Local Government [4]	64.5r	65.5	1.6%	64.3	62.9	2.3%
Average Weekly Hours						
Manufacturing	40.8	40.9	0.2%	39.7	40.4	-1.7%
Mining	40.9	39.1	-4.4%	42.1	43.4	-3.1%
Wholesale Trade	37.6	39.4	4.8%	38.2	36.1	5.8%
Retail Trade	28.5	29.3	2.8%	28.4	28.0	1.3%
Amount of Unemployment Compensation (thous. of dol.)	6,619.8	5,663.6	-14.4%	8,681.6	7,944.5	9.3%
Finance						
Savings, Savings and Loan Association (mil. of dol.)	2,403.7	2,461.4	2.4%	2,442.5	2,347.8	4.0%
Tax Collections by the State of Utah (thous. of dol.)						
Total Tax Collections	56,340.9	74,290.9	31.9%	133,891.0	124,651.3	7.4%
Sales and Use Tax	4,508.9	2,172.6	-51.8%	46,958.2	45,435.0	3.4%
Motor Fuel Tax	7,637.6	13,100.9	71.5%	8,533.3	7,637.8	11.7%
Individual Income Tax	33,639.1	37,799.9	12.4%	46,913.9	37,980.5	23.5%
Corporation Franchise Tax	964.2	8,020.6	731.8%	5,825.7	5,537.6	5.2%
Production						
Net Electric Power Utilized (mil. of kwh)	1,057.4	NA	NA	NA	1,105.4	NA
Crude Oil to Refineries (thous. of bbls.)	4,034.7	3,589.9	-11.0%	3,869.0	3,668.9	5.5%
Crude Oil (thous. of bbls.)	2,942.5	2,955.1	0.4%	3,007.3	3,356.5	-10.4%
Natural Gas (mil. of cu. ft.)	17,946.8	22,337.8	24.5%	20,923.5	18,939.7	10.5%
Coal (thous. short tons)	875.0	1,538.0	75.8%	1,057.8	1,041.0	1.6%
Tourism/Travel						
Air Passengers (total no. on and off) (S.L. Int'l Airport)	771,938	773,696	0.2%	842,618	810,410	4.0%
Highway Traffic Count Across State Lines	42,217	43,296	2.6%	38,071	35,973	5.8%
Transient Room Taxes (thous. of dol.)	(146.7)	32.2	-121.9%	454.4	425.7	6.7%
Visits, State, Nat'l. Parks, Monuments (thous.)	1,229.2	1,482.9	20.6%	1,049.7	1,003.4	4.6%
Utilities						
Telephone Lines in Service (Mt. Bell) (Residential)	474,690	480,810	1.3%	478,202	469,900	1.8%
Telephone Lines in Service (Mt. Bell)(Nonresidential)	169,711	177,268	4.5%	174,166	167,341	4.1%
Electric Customers (Residential)	463,000	479,247	3.5%	471,058	NA	NA
Electric Customers (Commercial)	45,755	46,357	1.3%	46,074	NA	NA
Natural Gas Customers (Residential & Commercial)	429,799	441,800	2.8%	444,328	432,401	2.8%
Natural Gas Customers (Industrial)	573	551	-3.8%	558	568	-1.7%

Utah Business Statistics

UTAH DATA	September 1986	September 1987	% Change From Year Ago	12 Month Average This Year	12 Month Average Last Year	12 Month Average % Change
Davis County						
Non-Ag. Employment (thous.)	53.6[r]	53.7[fo]	0.2%	53.3	53.3	-0.0%
Unemployment Rate	4.2[r]	4.7	11.9%	5.3	4.2	26.6%
Auth. Permit Construction (thous. of dol.)	15,184.5	12,051.9	-20.6%	13,319.2	16,793.2	-20.7%
New Dwelling Units (no.)	140	79	-43.6%	101.9	226.8	-55.1%
Postal Receipts (thous. of dol.)	295.2	318.2	7.8%	NA	322.9	NA
Electric Customers (Residential)	45,399	47,516	4.7%	46,889	41,924	11.8%
Electric Customers (Commercial)	3,193	3,271	2.4%	3,256	3,086	5.5%
Natural Gas Customers (Residential)	46,186	48,535	5.1%	48,361	45,741	5.7%
Natural Gas Customers (Industrial)	52	50	-3.8%	52	50	3.2%
Telephone Lines in Service (Mt. Bell)(Residential)	53,610	55,547	3.6%	54,652	52,027	5.0%
Telephone Lines in Service (Mt. Bell)(Nonresidential)	10,308	10,712	3.9%	10,439	9,992	4.5%
Salt Lake County						
Non-Ag. Employment (thous.)	334.8[r]	340.3[fo]	1.6%	334.9	329.1	1.8%
Unemployment Rate	4.8[r]	5.1	6.2%	5.5	5.5	0.6%
Auth. Permit Construction (thous. of dol.)	45,468.1	32,058.4	-29.5%	44,758.9	61,626.6	-27.4%
New Dwelling Units (no.)	445	186	-58.2%	285	575	-50.4%
Postal Receipts (thous. of dol.)	6,614.4	9,043.2	36.7%	7,219.4	7,235.0	-0.2%
Electric Customers (Residential)	230,814	235,772	2.1%	235,375	229,749	2.4%
Electric Customers (Commercial)	19,322	19,966	3.3%	19,783	19,138	3.4%
Natural Gas Customers (Residential)	209,174	214,225	2.4%	216,605	210,951	2.7%
Natural Gas Customers (Industrial)	255	235	-7.8%	244	258	-5.1%
Telephone Lines in Service (Mt. Bell)(Residential)	223,604	227,223	1.6%	225,907	221,327	2.1%
Telephone Lines in Service (Mt. Bell)(Nonresidential)	108,569	110,514	1.8%	109,506	107,395	2.0%
Utah County						
Non-Ag. Employment (thous.)	73.5[r]	75.3[fo]	2.4%	72.2	72.0	0.3%
Unemployment Rate	7.0[r]	5.9	-15.7%	7.4	6.3	17.8%
Auth. Permit Construction (thous. of dol.)	7,572.1	8,996.7	18.8%	12,152.8	9,499.3	27.9%
New Dwelling Units (no.)	72	58	-19.4%	97	98	-1.9%
Postal Receipts (thous. of dol.)	849.0	866.4	2.0%	929.7	915.2	1.6%
Electric Customers (Residential)	50,998	59,463	16.6%	51,705	NA	NA
Electric Customers (Commercial)	6,116	6,398	4.6%	6,365	NA	NA
Natural Gas Customers (Residential)	59,077	59,804	1.2%	60,173	59,348	1.4%
Natural Gas Customers (Industrial)	72	69	-4.2%	71	71	0.0%
Telephone Lines in Service (Mt. Bell)(Residential)	64,076	62,837	-1.9%	62,364	61,974	0.5%
Telephone Lines in Service (Mt. Bell)(Nonresidential)	16,076	19,055	18.5%	17,977	15,648	14.9%
Weber County						
Non-Ag. Employment (thous.)	60.4[r]	60.7[fo]	0.5%	60.3	59.3	1.8%
Unemployment Rate	5.8[r]	6.2	6.9%	7.1	5.9	20.4%
Auth. Permit Construction (thous. of dol.)	14,193.8	7,921.8	-44.2%	8,315.0	9,704.0	-13.8%
New Dwelling Units (no.)	109	57	-47.7%	71	100	-29.5%
Postal Receipts (thous. of dol.)	602.2	596.7	-0.9%	618.7	610.5	1.3%
Electric Customers (Residential)	51,782	52,730	1.8%	52,629	51,516	2.2%
Electric Customers (Commercial)	4,742	4,866	2.6%	4,815	4,718	2.1%
Natural Gas Customers (Residential)	47,605	48,246	1.3%	48,855	47,738	2.3%
Natural Gas Customers (Industrial)	87	85	-2.3%	85	87	-2.1%
Telephone Lines in Service (Mt. Bell)(Residential)	45,408	45,952	1.2%	45,816	45,335	1.1%
Telephone Lines in Service (Mt. Bell)(Nonresidential)	10,550	11,194	6.1%	10,845	10,553	2.8%

[r] Revised [na] Not available [fo] Forecast

Sources:

Personal Income:	Bureau of Economic Analysis, U.S. Department of Commerce
New Corporations:	Utah Secretary of State
New Car and Truck Sales:	Utah State Tax Commission, Economic and Statistical Unit
Agriculture:	U.S. Department of Agriculture, Agriculture, Utah: Utah Crop and Livestock Reporting Service
Construction Data:	F.W. Dodge Statistics and Utah Construction Report, Bureau of Economic and Business Research
Employment Data:	Utah Department of Employment Security
Savings Information:	Utah Savings and Loan Institutions
Tax Collections:	Utah State Tax Commission
Net Electric Power Utilized:	Cooperating Utah power companies
Crude Oil Production:	Area oil refineries
Natural Gas Production:	Utah Department of Oil, Gas, and Mining
Coal Production:	U.S. Department of Energy
Air Passengers:	Salt Lake City International Airport, Statistics Division
Highway Traffic Count:	Utah Department of Transportation
Visits to State and National Parks and Monuments:	U. S. Forest Service, Utah State Parks and Recreation Department
Utilities Data:	Cooperating Utah utility companies
Postal Receipts:	Postmasters in Davis, Salt Lake, Utah, and Weber Counties

Footnotes:

1 Obtained from F.W. Dodge Statistics
2 Obtained from Utah Construction Report
3 Includes services by nonprofit and religious institutions
4 Includes public schools and college institutions

Bureau of Economic and
Business Research
University of Utah
Salt Lake City, Utah 84112
Return Postage Guaranteed
(Non-Profit Organization)

SRI ACQUISITION
CONGRESSIONAL
INFORMATION SERVICE, INC.
4520 EAST WEST HIGHWAY
BETHESDA, MARYLAND 20814

Non-Profit Org.
U.S. Postage Paid

Permit No. 1529
Salt Lake City, Utah

NATIONAL DATA	September 1986	September 1987	% Change From Year Ago	12 Month Average This Year	12 Month Average Last Year	12 Month Average % Change
U.S. Gross National Product (seasonally adjusted) (bil.) (qtly.)	4,240.7	4,520.5	6.6%	4,400.5	4,182.8	5.2%
Total Personal Income (seasonally adjusted) (bil. of dol.)	3,567.5	3,777.2	5.9%	3,680.2	3,487.5	5.5%
Industrial Production Indexes (seasonally adjusted) (1977=100)	124.5	130.9	5.1%	128.0	124.8	2.6%
Total Non-Farm Bus. Expend. on New Plants & Equip. (bil.) (qtly.)	375.5	398.0	6.0%	384.0	381.7	0.6%
Index of Leading Indicators (1967=100)	179.9	192.7	7.1%	187.8	176.4	6.5%
Price Indexes						
Consumer Price Indexes (not seasonally adjusted) (1967=100)						
CPI-U (All Urban Consumers) All Items	330.2	344.4	4.3%	336.6	327.3	2.8%
CPI-U (All Urban Consumers) Food & Beverages	315.1	326.4	3.6%	321.8	316.2	1.8%
CPI-U (All Urban Consumers) Housing	363.7	375.4	3.2%	367.7	358.4	2.6%
CPI-U (All Urban Consumers) Transportation	302.2	320.4	6.0%	312.0	315.0	-0.9%
CPI-U (All Urban Consumers) Medical Care	439.7	467.8	6.4%	455.5	425.5	7.1%
CPI-U (All Urban Consumers) Energy	360.6	387.4	7.4%	364.4	390.8	-6.8%
Producer Price Index (not seasonally adjusted) (1967=100)						
Producer Price Index, All Finished Goods	287.5	296.7	3.2%	293.9	291.2	1.0%
GNP Price Deflator (1982=100) (qtly.)	114.7	117.9	2.8%	116.5	113.4	2.7%
Civilian Employment (seasonally adjusted)						
Total Civilian Labor Force (mil.)	118.2	119.8	1.4%	119.3	117.2	1.7%
Total Civilian Employment (mil.)	109.8	112.7	2.6%	111.6	109.0	2.4%
Unemployment Rate	7.0	5.9	-15.7%	6.4	7.0	-8.6%
Construction						
Total Construction (mil. of dol.)	19,851.9	22,037.8	11.0%	20,531.5	18,939.1	8.4%
Residential	9,950.3	10,158.5	2.1%	9,783.9	9,319.9	5.0%
Nonresidential	6,876.1	8,047.1	17.0%	6,956.9	6,318.9	10.1%
Non-Building	3,025.5	3,832.2	26.7%	3,765.8	3,300.2	14.1%
New Dwelling Units (no.)	141,326	135,111	-4.4%	131,569	141,082	-6.7%
Interest Rates						
Short Term (3-month Treasury bill rate)	5.19	6.32	21.8%	5.66	6.42	-11.9%
Long Term (30-year Treasury bond yields)	8.08	9.58	18.6%	8.28	8.70	-4.8%
Prime Rates Charged by Banks on Short-term Business Loans (ave.)	7.50	8.70	16.0%	7.86	8.83	-11.0%
Mortgage Rates (new homes)	9.74	9.03	-7.3%	9.08	10.10	-10.0%

Sources: Business Conditions Digest, U.S. Department of Commerce: U.S. Gross National Product, Total National Personal Income, Industrial Production Indexes, Total Business Expenditures for New Plant and Equipment, Index of Leading Indicators, GNP Price Deflator, National Employment Data, Interest Rates.

F.W. Dodge Report, McGraw-Hill: National Construction Data.

Survey of Current Business, U.S. Department of Commerce: New Home Mortgage Rates.

Utah Labor Market Report, Utah Department of Employment Security: Consumer Price Indexes, Producer Price Indexes.

Chase N. Peterson, *President, University of Utah*

BUREAU OF ECONOMIC AND BUSINESS RESEARCH

R. Thayne Robson, Director
Frank C. Hachman, Associate Director

graduate school of business bureau of economic and business research university of utah

STAFF OF THE BUREAU OF ECONOMIC AND BUSINESS RESEARCH

Office Staff

Mari Lou Wood, Office Manager
Cathy Crawford, Administrative Assistant
Diane S. Gillam, Associate Accountant
Lee Carberry, Administrative Secretary
Gaylene Roethel, Administrative Secretary
Michael Khuu

Research Analysts, Research Assistants and Programmers

Jan Crispin
Peter Donner
Mark Oberg
Garv Ricks
Austin Sargent
James Wood

Senior Research Economists

Boyd L. Fjeldsted
Rodger Weaver

Production Staff

James B. Peters, Graphics